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NTSB REPORTS BANNER YEAR FOR GENERAL AVIATION SAFETY

General aviation recorded its best year in nearly all safety categories, the National Transportation Safety Board reported last week, adding that other segments of U.S. civil aviation also had improved safety statistics for the year. The board said that "except for a fractionally lower fatal accident rate in 1979, general aviation last year recorded new lows in every accident total and rate the safety board reports." Total number of accidents was down 3.8 percent, from 3,216 in 1982 to 3,091 last year. Number of fatal accidents dropped five percent, from 578 to 548 and fatalities declined from 1,161 to 1,049. "General aviation's rate of 9.4 total accidents per 100,000 aircraft hours was down six percent from 1982, and was the lowest ever," the board said. The fatal accident rate of 1.67 per 100,000 hours was a seven percent reduction from 1982; only the 1.65 rate in 1979 was lower *(see chart on the back of Page 18).*

Commuter operators also posted an outstanding year, with only 17 accidents, compared to 27 in 1982, and two fatal accidents, down from five in the previous year. Total number of fatalities fell from 14 to 11. NTSB noted that "the rate of 0.78 total accidents per 100,000 departures—the rate most often used to measure commuter safety—was 41 percent lower than in 1982, and the fifth successive annual decline in that rate. The rate of 0.09 fatal accidents per 100,000 departures was a 64 percent reduction from the 1982 rate, and an 82 percent reduction since 1981."

Number of accidents involving on-demand air taxi operators rose from 133 in 1982 to 141, but number of fatal accidents fell from 30 to 28; number of fatalities fell from 70 in 1982 to 60 last year. The total accident rate of 4.55 accidents per 100,000 hours was up 12 percent, but the 0.90 fatal accident rate represented a two percent decline.

The large scheduled airlines were involved in 18 total accidents in 1983, compared to 16 in 1982, for a rate of 0.275 total accidents per 100,000 hours. Carriers using large aircraft had three fatal accidents, including the Air Illinois HS748 crash near Pinckneyville, Ill. that killed 10 persons, but total fatalities fell from 235 in 1982 to 14 last year.

'CONSERVATIVE' GAMA FORECAST ANTICIPATES HIGHER SHIPMENTS, BILLINGS

General Aviation Manufacturers Association, in what it is billing as "a most conservative forecast," anticipates a 21 percent increase in the number of new aircraft to be shipped this year and a 16 percent increase in aircraft billings. GAMA Chairman Allen Paulson of Gulfstream Aerospace and GAMA President Ed Stimpson are scheduled to detail their projection for 1984 in a speech today (Jan. 16) before the Aerospace Analysts Society in New York.

GAMA officials are forecasting that the industry bottomed out in 1983. Dollar volume for the year totaled $1.47 billion, down 26.5 percent from the $1.9 billion recorded in 1982. Number of aircraft delivered last year plunged 36.9 percent—the fifth consecutive decline in annual deliveries—to 2,691, compared to 4,266 in 1982 *(see BA's worldwide delivery figures on Page 21).* Despite the decline in full-year figures, Stimpson said he is encouraged by results in December, the best month of the year with delivery of 218 new aircraft valued at just over $236 million. In 1984, GAMA is calling for delivery of 3,245 aircraft valued at $1.7 billion.

(Continued on the following page)

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BUSINESS/PERSONAL AIRCRAFT INDUSTRY — DECEMBER UNIT SHIPMENTS

BEECH AIRCRAFT CORP.

		Dec. 83	Cal. Year	Fisc.† Year
• Single-Engine				
BE-77	Skipper	1	5	1
BE-C23	Sundowner	0	15	3
BE-C24R	Sierra	0	3	0
BE-F33A	Bonanza	1	16	3
BE-V35B	Bonanza	0	4	0
BE-A36	Bonanza	12	68	19
BE-B36TC	Bonanza	10	64	16
• Multi-Engine				
BE-B55	Baron	0	17	4
BE-E55	Baron	0	4	0
BE-58	Baron	4	36	10
BE-58TC	Baron	1	4	1
BE-58P	Baron	2	10	2
BE-76	Duchess	1	9	1
BE-B60	Duke	0	8	0
BE-C99	Airliner	3	20	8
BE-C90-1	King Air	2	15	2
BE-F90-1	King Air	3	19	7
BE-B100	King Air	0	4	0
BE-200	Super King Air	9	65	15
BE-200C	Super King Air	0	14	1
BE-200T	Super King Air	1	2	1
TOTAL		50	402	94

Manufacturers net billing - $32,743,077

BRITISH AEROSPACE

• Multi-Engine				
BAe	Jetstream 31	2	18	3
HS-748		1	9	3
BAe 146-100		2	7	3
BAe 146-200		1	3	1
HS-125-700	Model A	0	8	2
HS-125-700	Model B	2	11	2
TOTAL		8	56	14

PILATUS BRITTEN-NORMAN LTD.

• Multi-Engine				
BN-2	Islander	1	10	3
BN-2T	Islander	6	8	6
Mark III	Trislander	0	2	1
TOTAL		7	20	10

CANADAIR LIMITED

• Multi-Engine				
CL-600	Challenger	0	13	0
CL-601	Challenger	3	14	8
TOTAL		3	27	8

CESSNA AIRCRAFT CO.

• Single-Engine				
CE-152		0	159	1
CE-A152	Aerobat	0	8	1
CE-172	Skyhawk	22	231	40
CE-172	Cutlass	3	20	3
CE-172RG	Cutlass	1	54	10
CE-182	Skylane	8	85	20
CE-122	Turbo Skylane	0	16	0
CE-182RG	Skylane RG	2	32	6
CE-182RG	Turbo Skylane RG	0	18	0
CE-185	Skywagon	2	26	6
CE-U206	Stationair 6	2	64	8
CE-TU206	Turbo Stationair 6	3	52	5
CE-208	Stationair 8	3	9	3
CE-TU208	Turbo Stationair 8	0	5	1
CE-210	Centurion	2	24	5
CE-T210	Turbo Centurion	1	47	4
CE-P210	Pressurized Centurion	7	35	14
CE-188	AgHusky	1	18	1
CE-188	AgTruck	0	20*	0*
• Multi-Engine				
CE-303	Crusader	4	57	8
CE-335		0	1	0
CE-340		0	19	0
CE-402		0	19*	3*
CE-404	Titan	0	0	0
CE-414	Chancellor	2	11	2
CE-421	Golden Eagle	0	27	1
CE-425	Conquest I	2	34	8
CE-441	Conquest II	5	24	10
CE-500	Citation I	0	12	2
CE-550	Citation II	3	32	10
CE-650	Citation III	3	18	7

CESSNA/REIMS AVIATION

• Single-Engine				
CE-F152		0	15	0
CE-F152	Aerobat	1	5	4
CE-F172	Skyhawk	0	19	1
CE-FR172	Hawk XP	0	0	0
CE-F182	Skylane	0	0	0
CE-F182RG	Skylane RG	0	0	0
TOTAL		77	1,216	184

Manufacturers net billing - $37,384,513
* Figures reflect aircraft buybacks by Cessna

AVIONS-MARCEL DASSAULT

• Multi-Engine				
AD-My.10	Falcon	0	1	0
AD-My.20	Falcon	0	4	1
AD-My.200	Falcon	1	8	2
AD-My.50	Falcon	0	12	0
TOTAL		1	25	3

DEHAVILLAND AIRCRAFT OF CANADA

• Multi-Engine				
DHC-5		0	0	0
DHC-6		0	7	1
DHC-7		0	5	2
TOTAL		0	12	3

EMBRAER

• Single-Engine				
EMB-200		5	5	5
EMB-201	Ipanema	0	15	4
EMB-710	Carioca (PA-28-235 Dakota)	1	3	1
EMB-711	Corisco (PA-28RT-201 Arrow)	1	7	5
EMB-712	Tupi (PA-28-181 Archer II)	0	3	1
EMB-720	Minuano (PA-32-310 Saratoga)	1	4	1
EMB-721	Sertanejo(PA-32R-301 Saratoga)	0	3	0
• Multi-Engine				
EMB-110	Bandeirante	8	19	9
EMB-121	Xingu	1	3	2
EMB-810D	Seneca II	2	35	6
EMB-820	Chieftain	0	1	0
TOTAL		19	98	34

FAIRCHILD AIRCRAFT CORP.

• Multi-Engine				
Merlin III-C		4	6	5
Merlin IV-C		0	0	1
Metro III		11	21	12
Expediter		0	12	5
TOTAL		15	39	23

Due to a statistical error, November and calendar figures in last month's chart were incorrect (BA, Dec. 12/189). Fairchild delivered one Merlin III-C and one Metro III in November. Calendar year figures should have read: Merlin III-C, two; Merlin IV-C, zero; Metro III, 10; and, Expediter, 12.

GATES-LEARJET

• Multi-Engine				
LR-25D		1	6	1
LR-29		1	1	1
LR-35A		8	12	8
LR-36A		0	2	0
LR-55		9	24	11
TOTAL		19	45	21

GULFSTREAM AEROSPACE

• Single-Engine				
GR-164	Agcat	0	0	0
• Multi-Engine				
G-47	Cougar	0	0	0
GR-1159A	Gulfstream III	2	33	9
AE-840	Turbo Commander	0	6	1
AE-900	Commander 900	6	16	9
AE-980		0	0	0
AE-1000		1	13	3
TOTAL		9	68	22

Manufacturers net billing - $31,746,922
(Exports: 1 AE-900 to Canada and United Kingdom)

ISRAEL AIRCRAFT INDUSTRIES

• Multi-Engine				
1124	Westwind I	4	7	6
1124A	Westwind II	7	14	8
TOTAL		11	21*	14*

* Figures have been adjusted to reflect delivery of two Westwind Is and one Westwind II in November. Manufacturer originally reported zero aircraft deliveries in November.

		Dec. 83	Cal. Year	Fisc.† Year
LAKE AIRCRAFT				
• Single-Engine				
LA-4-200EP		3	25	9
LA-250	Renegade	1	3	1
TOTAL		4	28	10
Manufacturers net billing - $507,908				
MAULE AIRCRAFT				
• Single-Engine				
M-5-180C		0	1	0
M-5-200		0	1	1
M-5-235C	Lunar Rocket	0	6	2
M-6-235		0	25	0
TOTAL		0	33	3
MAULE AIR INC.				
• Single-Engine				
M-7-235	Super Rocket	1	2	2
TOTAL		1	2	2
Manufacturers net billing - $43,127				
MITSUBISHI				
• Multi-Engine				
Solitaire		0	0	0
Marquise		0	7	2
Diamond		8	36	8
TOTAL		8	43	10
MOONEY AIRCRAFT CORP.				
• Single-Engine				
M-20J	201	8	85	20
M-20K	231	10	66	28
TOTAL		18	151	48
PIPER AIRCRAFT CORP.				
• Single-Engine				
PA-18-150	Super Cub	0	0	0
PA-38-112	Tomahawk	5	16	6
PA-28-161	Warrior	13	126	37
PA-28-181	Archer II	7	86	24
PA-28-236	Dakota	5	27	7
PA-28RT-201	Arrow IV	0	1	0
PA-28RT-201T	Turbo Arrow IV	4	46	8
PA-32-301	Saratoga	1	21	3
PA-32-301T	Turbo Saratoga	0	8	2
PA-32R-301	Saratoga SP	8	30	13
PA-32R-301T	Turbo Saratoga SP	5	39	9
PA-46-310P	Malibu	6	10	10
PA-36-375	Pawnee Brave	0	10	0
• Multi-Engine				
PA-23-250	Aztec	0	0	0
PA-31-310	Navajo	0	3	0
PA-31-325	Navajo C/R	0	10	1
PA-31-350	Chieftain	5	34	8
PA-31P-350	Mojave	3	20	10
PA-31T-501T	Cheyenne I	0	6	2
PA-31T-501T	Cheyenne IA	1	5	3
PA-31T-620	Cheyenne II	1	7	1
PA-31T2-620	Cheyenne II XL	4	12	5
PA-42-720	Cheyenne III	1	10	1
PA-42-720	Cheyenne IIIA	1	5	3
PA-34-220T	Seneca III	11	94	28
PA-44-180	Seminole	0	3	0
PA-44-180T	Turbo Seminole	0	1	0
PA-600A	Aerostar	0	0	0
PA-601B	Aerostar	0	1	0
PA-601P	Aerostar	0	2	1
PA-602P	Aerostar	0	12	0
PA-700P	Aerostar	1	1	1
PA-T1020		3	9	7
PA-T1040		0	5	1
TOTAL		85	660	191
Manufacturers net billing - $21,000,000				
ROCKWELL INTERNATIONAL				
• Multi-Engine				
NA-65	Sabreliner	0	0	0
Model 60		0	1	0
TOTAL		0	1	0
SHORT BROTHERS LTD.				
• Multi-Engine				
SBJ-CS-7	Skyvan	0	1	0
SD-3-30		0	5	0
SD-3-60		5	28	9
TOTAL		5	34	9
SINGLE-ENGINE		168	1,811	374
MULTI-ENGINE		174	1,170	329
GRAND-TOTAL		342	2,981	703

UNIT SHIPMENTS COMPARATIVE TREND: 20 MANUFACTURERS

	December			Calendar Year			Fiscal Year to Date †		
	1983	1982	1981	1983	1982	1981	1983	1982	1981
Beech	50	49	116	402	526	1,242	94	101	278
British Aerospace	8	3	3	56	28	34	14	7	10
Britten-Norman	7	4	2	20	18	33	10	6	8
Canadair	3	*	*	27	*	*	8	*	*
Cessna	77	135	333	1,216	2,140	4,680	184	337	926
Dassault	1	7	6	25	66	82	3	21	17
DeHavilland	0	*	*	12	*	*	3	*	*
Embraer	19(14)	13(4)	22(13)	98(42)	181(71)	203(87)	34(20)	33(14)	48(27)
Fairchild	15	13	18	39	49	85	23	19	36
Gates	19	15	20	45	99	138	21	28	44
Gulfstream	9	*	23	68	88	295	22	23	44
Israel	11	*	5	21	18	39	14	*	9
Lake	4	*	3	28	20	53	10	5	10
Maule	0	0	4	33	39	44	3	9	7
Maule Air Inc.	1	0	0	2	0	0	2	0	0
Mitsubishi	8	16	8	43	43	45	10	22	12
Mooney	18	20	27	151	188	343	48	51	72
Piper	85	102	161	660	1,043	2,495	191	267	469
Rockwell	0	0	1	1	2	37	0	0	4
Short	5	2	1	34	15	15	9	3	3
TOTAL	342	379	753	2,981	4,563	9,863	703	932	1,997

Parentheses show actual Embraer deliveries, not including aircraft kits.
† Fiscal year October 1 - September 30.
* Figures not available.